



## INTERDISCIPLINARY STATISTICAL RESEARCH LAB (ISRL)

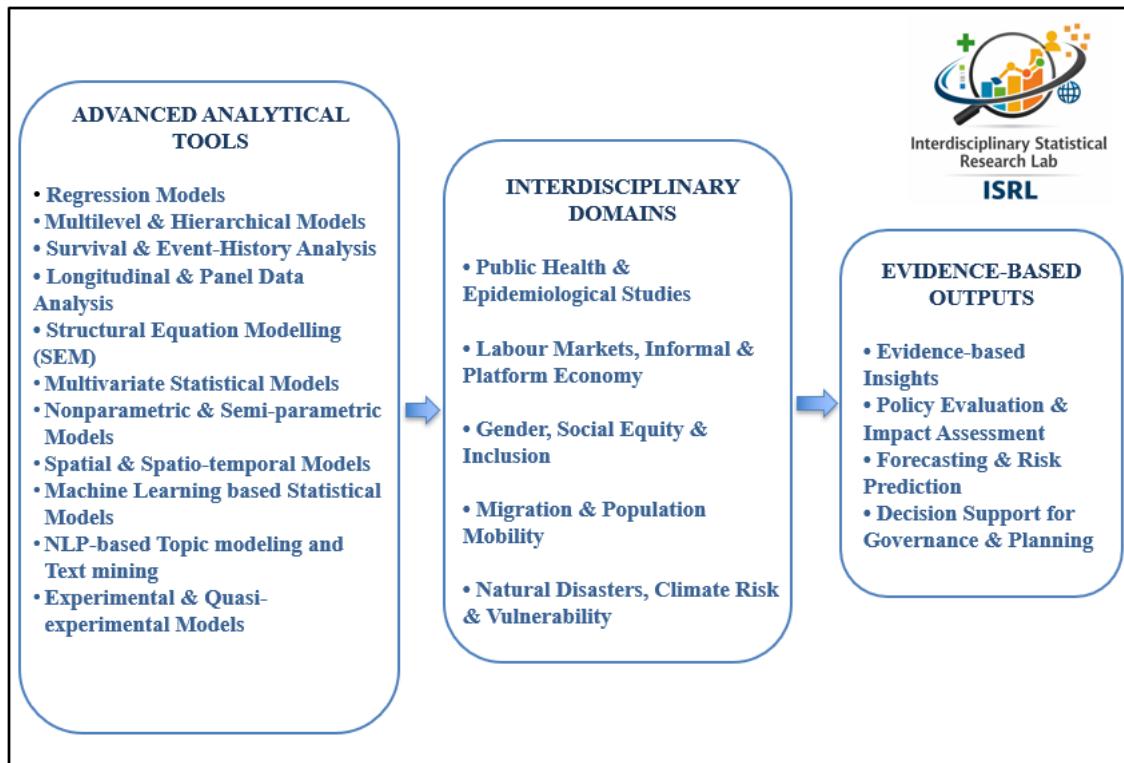
- **Name of Principal Investigator:** Dr. Tina Dutta
- **Research Theme:** The *Interdisciplinary Statistical Research Lab (ISRL)* functions as a methodological and applied research hub, integrating advanced statistical modelling and machine learning techniques to address complex societal challenges across health, labour, gender, migration, ageing, and disaster contexts.
- **Broad Area of Research and Scope:**

Advanced statistical modelling and machine learning techniques are employed to model, predict, and analyze complex data, enabling the generation of rigorous, policy-relevant insights across the following broad interdisciplinary domains:

1. Public Health and Epidemiological Studies
2. Labour Markets, Informal Economy and Platform Economy
3. Gender, Social Equity & Inclusion
4. Migration & Population Mobility
5. Natural Disasters, Climate Risk & Vulnerability
6. Policy Evaluation, Forecasting & Decision Support



### Schematic Representation of Broad Area of Research:



**Targeted Application Area:** Public Health, Labour Market Studies, Gender, Migration, Natural Disasters, Policy Evaluation

**Achievements:** Ms. Muskan Chhetri, PhD Scholar, under the guidance of Dr. Tina Dutta achieved ICSSR Full-term Doctoral Fellowship 2025-26 on the research proposal entitled **“Gig and Platform Economy in India: Emerging Employment Dynamics, Migration and Gender Perspectives”**.

**Group Members:**



Dr. Tina Dutta  
Assistant Professor  
Centre for Quantitative  
Economics and Data Science  
BIT Mersa, Ranchi



Dr. Tamalika Koley  
Assistant Professor  
Decision Sciences  
IIM Lucknow



Dr. Sourya Joyee De  
Assistant Professor  
Department of Management  
Sciences  
IIT Kanpur



Ms. Swati Chourasia  
Ph.D. Scholar  
Centre for Quantitative  
Economics and Data Science  
BIT Mersa, Ranchi



Ms. Muskan Chhetri  
Ph.D. Scholar  
Centre for Quantitative  
Economics and Data Science  
BIT Mersa, Ranchi